CICLOSPORT®

SPORTS INFORMATION SYSTEMS

OPERATING MANUAL

CICLOMASTER

CM 8.2

KABELLOS/WIRELESS
DIGITAL 2.4GHZ

www.ciclosport.de

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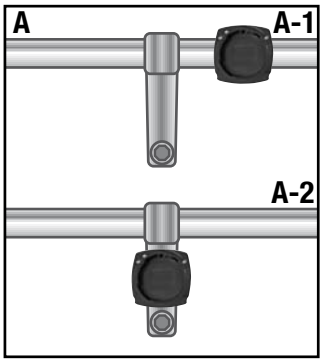
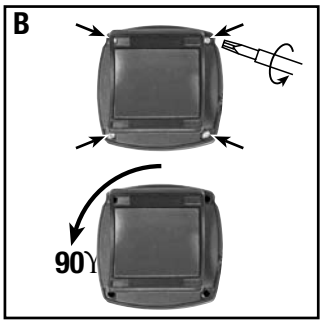
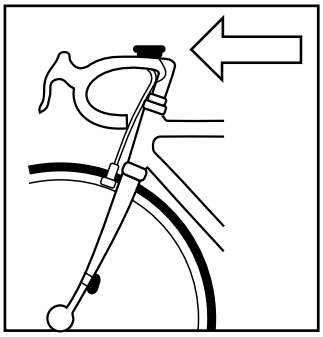
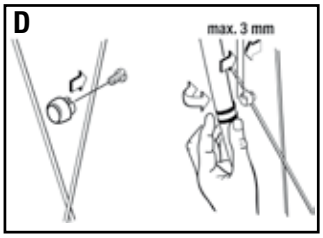
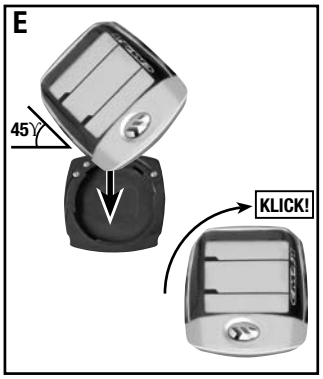
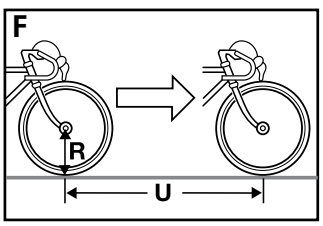












Congratulations on your purchase!

By purchasing the **CICLO*MASTER* CM 8.2** you have acquired an electronic multifunctional sports computer with the highest level of precision and newest digital transmission technology. The **CM 8.2** has a state of-the-art electronics, is waterproof and convinces through his high durability.
It's special feature: Transmission from transmitter to device is implemented on a digital communication level and this makes it extremely faultresistant. The **CM 8.2** has a Two-in-One system. This means that you can use it with 2 bikes and have the recorded values displayed separately for either bike or as a total. In this case, the **CM 8.2** automatically identifies immediately, after the first wheel rotations, which of the two bikes is being used.
As another special features the **CM 8.2** has an optional cadence measurement and an optional heart rate measurement (for this you need separately available accessories).

In order to use all functions of the CM 8.2 in the correct way, please read through this operating manual carefully.

Content:
- CICLOMASTER CM 8.2
- battery type CR 2032
- battery cap
- handlebar bracket
- transmitter
- cable ties for mounting
- spoke magnet

1. General information:

CM 8.2 has three modes: Bike 1 ①, Bike 2 ②, and Non-Bike mode.
To switch from one mode to another, simultaneously press the right and left buttons briefly (switching is only possible if speed SPD = 0). In the Non-Bike mode, only bicycle independent functions will be displayed.

CM 8.2 has an automatic energy save mode: If bike 1 or 2 does not receive any signals for more than 5 minutes and you don't press any button during this time, the display will be switched off (in the non-bike mode it will be turned off after 15 hours.)

By pressing any button the display will be switched on again.

Because of the new digital transmission technique, the transmitters have to be initialized before using **CM 8.2** for the first time. We recommend initializing the transmitters before mounting the CM 8.2 on the bike.

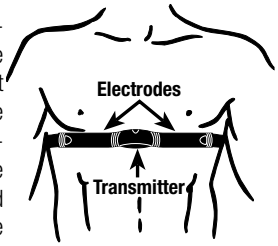
2. Installation

Picture A: Mounting is possible on handlebar (Position A-1) or stem (Position A-2).
Picture B: For using it on the stem (Position A-2), rotate upper part.
Remove the protective tape.
Place the handle bar and fasten it with the cable ties.
Picture C: Mount the transmitter with cable ties on the fork an cutt the ends
Picture D: Fix the magnet on a spoke so that it will face the mark on the transmitter. Adjust the magnet position and fine tune the sensor if necessary (distance between transmitter and magnet max. 3 mm).
Picture E: Rotate the CM 8.2 to 45 degree left and install it into the bracket. Then rotate it 45 degrees right to lock it. To unlock, rotate 45 degrees to the left.

2.1 Mounting of optional cadence-set
Mount the handlebar unit as described above.
Place the transmitter on the cable in front of the crank (don't fasten cable-ties yet). Mount the cadence-magnet on the crank (max. distance 3 mm). Important! The magnet must point directly towards the mark on the transmitter.
Now switch CM 8.2 cadence measuring on and - if not done yet - initialize the transmitter (see chap.5).
Turn the crank a few times to check if the mounting has been done correctly so that CM 8.2 receives the signal.
Now tighten the cable-ties.

2.2 Putting on the heart rate transmission belt
Warning: whoever carries out sport should have a general medical check up on his/her general state of health -especially beginners, persons older than 35 years of age and anyone who has suffered from illnesses or injuries in the past. It is recommended that a doctor be consulted in any case in the presence of risk factors, such as smoking, high blood pressure, high cholesterol values, diabetes, lack of exercise and excess weight.

Pacemaker wearers should consult their doctor before using any heart rate measurement device!



The transmitter belt is hung in the elastic chest belt and fastened around the upper body. The transmitter (plastic part with the Ciclo-logo) should lie over the centre of the upper stomach, immediately below the breastbone, so that the logo on the transmitter is legible (viewed from the front) (see illustration). The electrodes in the belt, to the right and left of the transmitter, must be in contact with the skin.
Pull the belt tight so that it cannot slip and constant contact with the body is guaranteed during movement.

Measurement of the heart rate is only possible if:
- Transmitter belt is fitted correctly
- Measurement of the heart rate is switcht on
- Heart rate transmitter has already been initialized
- CM 8.2 is within the transmitter's reception range

If the CM 8.2 fails to display any heart rate, it probably means that there is no contact between the skin and the electrodes. Moistening the electrodes and the underlying skin often helps. Best results are obtained if electrode gel is used (available from pharmacies).

3. Operational Setup

Inserting the battery
Insert battery type CR2032 with **plus-pole facing up**. Close battery cap with a coin, being sure not to over tighten. After inserting the battery the display will show normal mode.

(If nothing or incomprehensible signs are displayed, press the AC-button on the backside of the computer with help of a ballpoint pen or a similar object. **Attention:** this will delete all values and setting).

Indication: Because of a special movement-sensor (Motion Switch) CM 8.2 will start searching for the transmitter signals automatically as soon as it is moved. For this reason, you might here some noises when moving CM 8.2 - this is normal.

4. Funcionality of CM 8.2

Because of the respective transmitter identification CM 8.2 can automatically identify on which bike it is being used.
It is necessary for CM 8.2 to be located in the handlebar bracket. Only in this position can it search for, and receive the transmitted signal from the motion sensor when the bike starts to move.
During the search for the transmission, „searching" will flash on the display. When the transmission has been found, the flashing stops and the normal setting mode will be displayed.
The CM 8.2 transmitter search can also be started manually by pressing the right button for 3 seconds.
The manual transmitter search function will only work, if a transmitter signal has not yet been detected. (, – , displays the current function).
If the cadence transmitter is not mounted this function should been switched off. The transmitter search would keep on searching which needs a lot of battery.
To search for heart rate transmission without mounting CM 8.2 on the handlebar, start the manual search for the signal by pressing the right button for 3 seconds.

Attention: Because of the automatic transmitter searching function, triggered by the movement sensor, to save the battery, the CM 8.2 shouldn't be left on the handlebar if you are not using the bike, or if you are transporting the biket with a car.

5. Settings

Enter setting mode by pressing centre button for 3 seconds. Display shows 'SET BIKE1' ①.

To quit setting mode press again centre button for 3 seconds in any setting.

(To change the display to german language, press left button short, display shows ‚LANGUAGE'. Press centre button to choose this function and then switch between 'English' and 'Deutsch' with right button. To store press left button and then get back to setting mode with short pressing of right button).

Because the CM 8.2 can display german and english words, this manual shows both possibilities.

The different setting modes can be shown by pressing right or left button, by pressing centre button the shown setting mode is chosen.

Possible setting modes:
SET BIKE1 / SET RAD1
SET CLOCK / SET UHR
SET HR / SET HF
SET MISC
PC LINK / PC VERB
EXIT / ENDE
LANGUAGE / SPRACHE

Each setting mode can have different setting options.

The following is valid for these settings: the blinking value can be changed with the right button, the value is stored by shortly pressing the left button and the next value blinks or the next value appears on the display.

For a better reading in the following chapters the setting modes are **fat** printed and the settings ***fat and italic***.

SET BIKE1 / SET RAD1
Adjustment of bike-specific values, e.g. total distance, circumference, unit and more for bike 1.
Choose with centre button.
To do these settings for bike 2, press right and left button short simultaneously in normal mode. CM 8.2 switches to bike 2, then enter again setting mode (display then shows SET BIKE2/SET RAD2).

DAY DST / TAGES-DST
Adjustment of the daily distance
Default: 000.00 km
Range: 000,00 to 999,99 km or m
Set with right and left button, store with left button.
Here the daily distance can be adjusted, e.g. the point of starting a tour, when using a printed tour-guide.
(This setting doesn't change the total distance. Only really ridden kilometres are counted).

TOT DST / GES. DST
Adjustment of the total distance
Default: 0000 km
Range: 0 to 99999 km or m.
Set with right and left button, store with left button.
Here the total distance can be adjusted.

Wheel/Radumf.
Adjustment of circumference
Default: 2080 mm
Range: 0000-3999 mm
Set with right and left button, store with left button.
Here the circumference can be adjusted.

Size		Circumference
40-559	26 x 1,5	2026 mm
44-559	26 x 1,6	2051 mm
47-559	26 x 1,75	2070 mm
50-559	26 x 1,9	2026 mm
54-559	26 x 2,00	2089 mm
57-559	26 x 2,125	2114 mm
37-590	26 x 1 3/8	2133 mm
32-620	27 x 1 1/4	2199 mm
40-622	28 x 1,5	2224 mm
47-622	28 x 1,75	2268 mm
40-635	28 x 1 1/2	2265 mm
37-622	28 x 1 3/8	2205 mm
20-622	700 x 20C	2114 mm
23-622	700 x 23C	2133 mm
25-622	700 x 25C	2146 mm
28-622	700 x 28C	2149 mm
32-622	700 x 32C	2174 mm

The circumference of the wheel can be taken from the chart (Pict. G) or be measured by yourself.

Measuring the circumference of the wheel (for a more precise setting): Put a marking at the front-tire and on the ground (e.g. with chalk). Ride straight ahead exactly one turn of a tire (for a very exact measurement, check the pressure of the tire before getting on your bike) and mark this position on the ground. Now measure the exact circumference of the wheel between the two markings at the ground (in mm) – see pict. F.

Unit km bzw. Unit mi
Adjustment of the measuring unit (kilometres or miles)
Default: km
Set with right button, store with left button
Here you can choose whether the display should show kilometres (km/h) or miles (m/h).

SPD INISCAN
To start this function, simultaneously press the left and right buttons briefly, jump setting with left button.
To initialize the speed transmitter (for first use or after battery/transmitter change):
First, activate the speed transmitter (by moving the magnet close to the transmitter where marked) then press the left and right buttons simultaneously. A percentage will be displayed in the upper display. If transmitter has been initialized successfully, the next setting option will be displayed.
If transmission could not be initialized (e.g. transmitter was not activated) "error" will be displayed in the upper display. By pressing the left and right buttons simultaneously the search for the transmitter will be started again, to jump this setting press left button.

CAD OFF/TRITT AUS
Switch cadence on/off (ON/AN – OFF/AUS)
Default: OFF/AUS
Set with right button, store with left button
Here you can switch on/off the cadence measuring. To use this function you need the optional cadence-set (available at your local dealer).

CAD INISCAN
To start this function, simultaneously press the left and right buttons briefly, jump setting with left button.
To initialize the cadence transmitter (for first use or after battery/transmitter change):
First, activate the cadence transmitter (by moving the magnet close to the transmitter where marked) then press the left and right buttons simultaneously. A percentage will be displayed in the upper display. If transmitter has been initialized successfully, the next setting option will be displayed.
If transmission could not be initialized (e.g. transmitter was not activated) "error" will be displayed in the upper display. By pressing the left and right buttons simultaneously the search for the transmitter will be started again, to jump this setting press left button.

SET CLOCK / SET UHR
Adjustment of clock, date and clocktime-format.
Choose with centre button

Time / Uhrzeit
Adjustment of clock
Range: 00:00 to 23:59 or 12:00 to 11:59 A/P
Set with right and left button, store with left button
Here you can set the current clocktime. First you set the hours, then the minutes.

Year / Jahr
Adjustment of the year
Default: 2007
Range: 2007 to 2099
Set with right button, store with left button
Here you can set the current year.

Month / Monat
Adjustment of the month
Default: 01
Range: 01 to 12
Set with right button, store with left button
Here you can set the current month.

Day / Tag
Adjustment of the day
Default: 01
Range: 01 to 31
Set with right button, store with left button
Here you can set the current day.

Clock / Zeit
Adjustment of the clock format
Default: 24
Set with right button, store with left button
Here you can select between 24- or 12-hour format (AM/PM).

SET HR / SET HF
Adjustments for the optional heart rate measurement. To use this function you need the optional heart rate-set (available at your local dealer).

HR OFF/ON / HF EIN/AUS
Switch heart rate on/off (ON/AN – OFF/AUS)
Default: OFF/AUS
Set with right button, store with left button
Here you can switch on/off the heart rate measuring.

HR INISCAN
To start this function, simultaneously press the left and right buttons briefly, jump setting with left button.
To initialize the heart rate transmitter (for first use or after battery/transmitter change):
First, activate the heart rate transmitter (chap. 2.2) then press the left and right buttons simultaneously. A percentage will be displayed in the upper display. If transmitter has been initialized successfully, the next setting option will be displayed.
If transmission could not be initialized (e.g. transmitter was not activated) "error" will be displayed in the upper display. By pressing the left and right buttons simultaneously the search for the transmitter will be started again, to jump this setting press left button.

Fitness / Fitness
Adjustment of the fitness level.
Default: 3
Set with right button, store with left button.
Range 1-4, corresponding to the following levels:
1 – low fitness
2 – average fitness
3 – good fitness
4 – high fitness

Here you set your personal fitness level, necessary for the CICLO*InZone*®-calculation.

Sex / Geschlecht
Set with right button, store with left button.
Change between
m = male and f = female.
The sex is needed for the CICLO*InZone*®-calculation and the calorie consumption.

Weight / Gewicht
Range: 20 to 220 kg
Set with right and left button, store with left button.
The weight is needed for the CICLO*InZone*®-calculation and the calorie consumption.

Birthdate /Gebjahr
Adjust with right and left button, store with left button.
Default: 1960
Range: 1920 to 2006
The year of birth is necessary for the CICLO*InZone*®-calculation.

InZone
Here you can start the CICLO*InZone*®-calculation by short pressing of right and left button simultaneously (see also chap. 4 for CICLO*InZone*®).
In order to ignore the calculation, just press short left button.

In order to obtain an exact calculation of ones personal CICLO*InZone*® it is necessary to insert the personal data relative to fitness-level, sex, weight and birthdate.

In order to calculate the CICLO*InZone*® position the chest belt correctly, take up a rest position (remain seated and relaxed) and start the CICLO*InZone*® calculation by short pressing of right and left button simultaneously.
The CM 8.2 will then start to time 5 minutes. During this time, stay seated, relaxed and calm, as the CM 8.2 will measure the minimum heart rate reached during this period (heart rate at rest) and will store this value for the subsequent calculation.
After the 5 minutes the lower value of the calculated personal CICLO*InZone*® appears in the display.

Lower HR / untere HF
A lower heart rate limit can be set here or (after CICLO*InZone*®-calculation) the calculated value is shown.
When the current heart rate is lower than this value, the CM 8.2 shows an arrow (t) as an optical alarm.
Range: 0 to 220 bpm
Adjust with right and left button, store with left button

Upper HR / obere HF
An upper heart rate limit can be set here or (after CICLO*InZone*®-calculation) the calculated value is shown.
When the current heart rate is higher than this value, the CM 8.2 shows an arrow as an optical alarm.
Range: 0 to 240 bpm
Adjust with right and left button, store with left button

Max HR / Max HF
Shows the maximum heart rate, calculated with CICLO*InZone*®.
Range: 0 to 240 bpm
Adjust with right and left button, store with left button

SET MISC
Here you can switch on the powerdown-mode or make a reset (delete all values).
Choose with centre button

Powerdown / STROMSPAR
Switch on the powerdown-mode (e.g. before changing of the battery, to save the values).
To switch it on, press right and left button short simultaneously, display fades out and CM 8.2 is in powerdown-mode. By short pressing of any button, CM 8.2 starts again and shows normal mode.

Reset / Löschen
Here you can delete all values (including the total values). For this press right and left button short simultaneously, display shows 'reset' and then normal mode.

If you only want to delete the day values only, simultaneously press all three buttons for three seconds in normal mode.

PC-LINK
To start PC transmission.
Select with centre button.

LINK / VERBINDEN
If USB-Interface has been connected, start connection by pressing left and right buttons simultaneously. For further actions, see chapter 7.

6. Functions

The CM 8.2 has an automatic start/stop moving sensor.
By mounting CM 8.2 in the handlebar bracket, this function will be activated. With the first movement of the bike, the display will be switched on and starts searching for the transmitter (to search transmitter manually press right button for 3 seconds).

5 minutes after the last movement and if no buttons are pressed during this time (in the Non-Bike Mode it's 15 hours), the display changes to the "energy save" mode (display will be turned off).
By pressing any button the display can be switched on again.

If you wish to start the heart rate measurements without installing CM 8.2 into the handlebar bracket, start the manual transmitter search by pressing the right button for 3 seconds.

To reset all day values, simultaneously press all three buttons for three seconds. "Reset" or "delete" will be displayed.

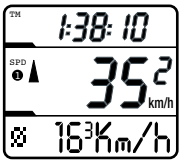
To start recording (for PC-evaluation, see chapter 7) press left and right buttons for 3 seconds (through this action all daily values will be deleted, see chapter 7).

The CM 8.2 has a three-lined display. In the centre part always the current speed is shown, with a small 1 or 2 left beside, that shows whether the current values are valid for bike 1 or bike 2.

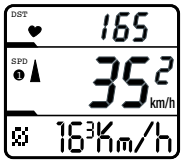
To advance the functions of the upper display, press right button, to advance the functions of the lower display press left button.
Always short pressing of the centre button shows the sub-functions of the function in the lower display.

Functions in the upper display:

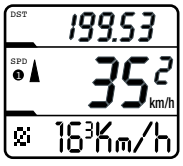
TM – Daily Ride-Time



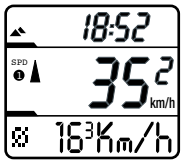
Heartrate – when switched on



DST – Daily distance



Time



(Explanation of these functions see ‚functions in the lower display')

Function in the centre display:

SPD – Current Speed
Inidcates the current speed in km/h or m/h .
Range: 0 to 199,9 km/h or m/h
An arrow on the left side of the display indicates, whether the current speed is faster (arrow up) or slower (arrow down) than the current average speed.

Functions in the lower display:

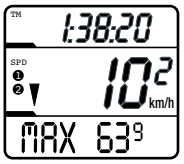
DST – Daily Distance
Indicates the distance recorded so far in kilometres or miles
Range: 0 to 999,99 km or mi

TOT – Total distance
Subfunction of "Daily Distance"
Indicates the total distance recorded so far in kilometres or miles (since last reset or battery change).
Range: 0 to 99999 km or mi

∑TOT - sum of total distance of bike 1 and bike 2
Subfunction of "Daily Distance"
Indicates the sum of the total distance recorded so far in kilometres or miles (since last reset or battery change) of bike 1 and bike 2.
Range: 0 to 199999 km or mi

Ø - Average Speed
Indicates the current average speed in km/h or mi/h.
Range: 0 to 199,9 km/h or m/h (the decimal place is highranking)

MAX – Maximum Speed
Subfunction of "Average Speed"
Indicates the highest speed ridden up to now in km/h or mi/h.
Range: 0 to 199,9 km/h or m/h (the decimal place is highranking)



Time
Indicates the current time.
Range: 00:00:00 to 23:59:59 or 12:00:00 to 11:59:59 AM/PM

Date
Subfunction of "Time"
Indicates the current date (dd.mm.yy).

TM – Daily Ride time
Indicates the current daily ride time.
Range: 0 to 9:59:59 h

TOT – total ride-time
Subfunction of "Daily Ride time"
Indicates the total ride time (since last reset or battery change).
Range: 0 to 999:59 h

∑TOT – sum of total ride time of bike 1 and bike 2
Subfunction of "Daily Ride time"
Indicates the sum of the total ride time (since last reset or battery change) of bike 1 and bike 2.
Range: 0 to 999:59 h

The following function only appears, if switched on in the setting mode (for the measuring of the cadence you need the separately available cadence set).

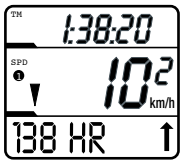
CAD – Cadence
Indicates the current cadence (rpm = rounds per minute)
Range: 0 to 250 rpm

Ø – Average Cadence
Subfunction of "Cadence"
Indicates the average cadence.
Range: 0 to 250 rpm

MAX – Maximum Cadence
Subfunction of "Cadence"
Indicates the maximum reached cadence.
Range: 0 to 250 rpm

The following functions (heart rate and calorie consumption) only appear, if heart rate is switched on in the setting mode (for the measuring of heart rate you need the separately available heart rate-set).

HR – Heart Rate
Indicates the current heart rate (bpm = beats per minute)
Range: 0 to 250 bpm
On the right side of the lower display an arrow shows, whether the current heart rate is below (▼), within (▲▼) or above (▲) the set heart rate limits.



Ø - Average Heart Rate
Subfunction of "Heart Rate"
Indicates the average heart rate (since last reset).
Range: 0 to 240 bpm

MAX – Maximum Heart Rate
Subfunction of "Heart Rate"
Indicates the maximum heart rate reached (since last reset).
Range: 0 to 240 bpm

Training time below the lower limit set for heart rate
Subfunction of "Heart Rate"measurement function.
Displays the training time during which heart rate dropped below the lower limit set.
(since last reset).
Range: 0 to 9:59:59 h

Training time within the limits set for heart rate
Sub-function of the heart rate function.
Indicates the training time during which heart rate was within the limits set (since last reset).
Range: 0 to 9:59:59 h

Training time above the upper limit set for heart rate
Sub-function of heart rate function.
Indicates the training time during which heart rate exceeded the upper limit set (since last reset).
Range: 0 to 9:59:59 h

kCal – Calorie Consumption
Indicates the current calorie consumption (since last reset).
Range: 0 to 99999 kCal

TOT – total calorie consumption
Subfunction of "Calorie Consumption"
Indicates the total calorie consumption (since last reset or battery change)
Range: 0 to 99999 kCal

7. PC Analysis / PC Transfer

CM 8.2 is able to analyse the recorded tours on your PC (optional USB-Interface needed).
To start recording, press the left and right buttons simultaneously for 3 seconds before starting the tour. The daily values will be deleted (0).
"Reset" will be displayed briefly and then CM 8.2 will start recording (during recording the mountain symbol ▲▲ will flash in the upper display).
At the end of the tour, press the left and right buttons simultaneously for 3 seconds again to stop the recording (mountain symbol will stop flashing).

Route markers:
During a recording, route markers can be set (at least every 20 seconds). This is done by briefly pressing right and left button simultaneously.

To transfer the recorded values to your PC, you will need the USB-Interface (for the installation you will need to insert the CD with the "Driver" information). Then open the program (on disc) and start the transfer of the values.
At the CM 8.2 start function "PC-Connection" (choose "PC-Link"/"PC Verb" and confirm with centre button. "LINK"/"VERB" will be displayed. To start connection shortly press left and right buttons simultaneously).
After the transfer "PC Link" / "PC Verb." will be displayed automatically.

8. CICLO*InZone*® – Philosophy and use

CICLO*InZone*® is a solution for the very best personalisation of your training routine.
It is possible to calculate the optimum training threshold with the CICLO*InZone*® function on the basis of your personal data and your pulse rate when at rest.
CICLO*InZone*® is the ideal solution for personalised cardio training applied to any sport, from jogging and cross-country running to road and indoor cycling.
Improve your fitness? – Lose weight? – Train whilst always taking your health into consideration? Everyone will find the correct aim to follow in their training. But how do you train to achieve those aims in the most efficient possible manner? How do you find the right intensity of effort during the training? CICLO*InZone*® is the optimum training ZONE for effort, resistance and weight loss.

What does CICLO*InZone*® do?
It calculates the optimum training zone for effort, resistance and weight loss.
The values vary from person to person and they offer a valid training support – always staying between 70 % and 85 % of the maximum heart rate.
(+/- 5 % of tolerance, taking into consideration the actual heart rate when at rest and the level of training).

The question of burning fat is seen in the "correct" light with CICLO*InZone*® – on the basis of the personal data collected.

9. Battery change

CM 8.2: First you should put CM 8.2 into the "Powerdown Mode" (see chapter 5 Settings) Open battery cap with a coin (unscrew to the left). Insert battery type CR2032 (please use battery with smooth minus-pole) with plus-pole facing up. Close battery cap, being sure not to over tighten. After inserting the battery the display will show normal mode.

(Speed-)Transmitter: Open battery cap at the top of the transmitter with a coin (unscrew to the left), remove old battery and insert new 12 V battery, type 23A (with pluspole facing up). Close battery cap, being sure not to over tighten.
(Battery change in the optional cadence transmitter works in the same way.)

Please do not throw away battery in your normal garbage.

10. Trouble shooting

Faulty or no display
- check to see if battery is installed properly or replace battery (Attention: removing battery will clear all settings and values)
- press AC-button on the rear of the computer

Actual Speed not displayed
- transmitter hasn`t been initialized (see chapter 5)
- check to see if wheel-sensor is mounted properly
- check the position of the spoke magnet (max. 3 mm distance to wheel-sensor)
- make sure CM 8.2 is mounted in bracket correctly
- check wheel circumference
- start transmitter search (press left button for 3 seconds)

Speed to high or to low
- check wheel circumference
- check to see if you are using miles or kilometers

Transmitters cannot be initialized
(initialization is very slow or "error" displayed)
- Tranmitter battery is discharged or transmitter is defect
- Transmitter has already been initialized for one of the bikes. If you still want to initialize the transmitter for the current bike you must initialize the transmitter again for the other bike, but without an active transmitter. "Error" will be displayed. Now you can initialize it again with the choosen bike.

Automatic search of the transmitter doesn't start
by moving the bike.
- CM 8.2 is not correctly located in the handlebar bracked
- A transmitter has already been found (CM 8.2 displays SPD 0) e.g. if you switch bikes. If you stay in the transmitting area of the first transmitter CM 8.2 displays 0. If CM 8.2 is outside the transmitting area it will display "—". With the next movement of the bike the transmitter search will start again.
- transmitter hasn`t been initialized (see chapter 5)

No heart rate displayed or values displayed are incorrect
or unstable
- proof whether heart rate is switched on in setting mode
- Check transmitter belt (battery)
- Skin too dry or cold
- Distance between CM 8.2 and transmitter belt is too big (max. 5m)
- start transmitter search (press left button for 3 seconds)

Cadence is not displayed or value incorrect or unstable
- Check whether switched on in setting mode
- Check sensor and magnet for correct installation
- start transmitter search (press left button for 3 seconds)

CM 8.2 is making noise
- its normal because of the automatic movement sensor

PC Recording doesn't starts
- storage is full, you have to delete recorded tours (with HACtronic program or the reset function in settings of CM 8.2 see chapter 5; **Attention:** the other values will be deleted also)

11. Guarantee

We offer a guarantee for 2 years from the date of purchase on the CM 8.2. The guarantee is limited to material and processing faults. Broken transmitters, or damages of wasted parts of CM 8.2 are excluded from the guarantee.
The guarantee is valid only if the computer, with accessories, has been handled and maintained carefully and according to operating instructions.

The guarantee will take place through changes of or repairing the defective parts. The guarantee doens't cover direct, indirect or subsequent damages which are related to the product.

This guarantee doesn't limit any rights of the consumer (considering relative national law) in respect to the dealer.

To return the CM 8.2 under conditions/terms of the guarantee, please refer to your dealer, your local distributor or send the computer with the proof of purchase (date) and all accessories and with sufficient postage to:

CICLO SPORT SERVICE
K. W. Hochschorner GmbH
Konrad-Zuse-Bogen 8
D-82152 Krailling

E-Mail: ciclo-service@ciclosport.de

Please read through the operating manual again carefully before sending in the device and check the battery.
In case of valid guarantee claims, the repaired device or a replacement device will be returned free of charge.

Repair:
If your CM 8.2 is sent in for repair (or battery change) or if a guarantee claim is not valid, repairs up to EUR 19.- will be carried out automatically.

In case of higher repair costs you will be notified. The repaired device will be sent back COD.

12. Technical Data

CM 8.2 (receiver)
Watersplash resistant
Operating temperature: - 10°C to + 50°C
Battery: CR 2032 Lithium

Optional speed transmitter / cadence transmitter
Reach: bis 2 m
Operating temperature: -10°C to 50°C
Transmission frequency: 2,4 GHz Battery: CR2032 Lithium

Optional transmitter belt (heart rate transmitter)
Reach: 5 m
Operating temperature: 0°C to50°C
Battery: CR2032 Lithium
Transmission frequency: 2,4 GHz

Guarantee certificate:

Sender:

Name

First name

Street, No.

Code/Location

Telephone (during the day)

Fax

E-Mail

Reason for return:

After expiry of the guarantee:

Repairs should be carried out up to a value of Euro _____

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems).
This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Subject to technical alterations and fault.